CONTENTS

NERVE REGENERATION THROUGH ALLOGENEIC NERVE GRAFTS, WITH SPECIAL REFERENCE TO THE ROLE OF THE SCHWANN CELL BASAL LAMINA 1
C. IDE, * T. OSAWA† and K. TOHYAMA*, *Department of Anatomy School of Medicine and †Department of Oral Anatomy School of Dentistry, Iwate Medical University, Morioka 020, Japan

THE PERINATAL REORGANIZATION OF THE INNERVATION OF SKELETAL MUSCLE IN MAMMALS 39
J. K. S. JANSEN and T. FLADBY, Institute of Physiology, Oslo University, 0162 Oslo 1, Norway

ANALYSIS AND NUMERICAL SOLUTION OF THE DENDRITE EQUATION WITH SYNAPSES APPLIED TO COCHLEAR NEURONS 91
J. L. WINSLOW, Physiology Department, Medical Computing and Institute of Biomedical Engineering, University of Toronto, Toronto, Ontario M5S 1A8, Canada

MPTP-INDUCED PARKINSONISM 107
Y. STERN, Departments of Neurology and Psychiatry, Columbia University, College of Physicians and Surgeons, New York, NY 10032, U.S.A.

SYNAPTIC ORGANIZATION, LOCAL NEURONAL CIRCUITRY, AND FUNCTIONAL SEGREGATION OF THE TELEOST OLFACTORY BULB 115
M. SATOU, Zoological Institute, Faculty of Science, University of Tokyo, Tokyo 113, Japan

DOPAMINE D-1 AND D-2 RECEPTORS IN RELATION TO REWARD AND PERFORMANCE: A CASE FOR THE D-1 RECEPTOR AS A PRIMARY SITE OF THERAPEUTIC ACTION OF NEUROLEPTIC DRUGS 143
R. MILLER,* J. R. WICKENS* and R. J. BENINGER†, *Department of Anatomy, University of Otago Medical School, P.O. Box 913, Dunedin, New Zealand and †Department of Psychology, Queens University, Kingston, Ontario, Canada, K7L 3N6

STEREOTAXIC ATLAS FOR THE LIZARD *GALLOTIA GALLOTI* 185
J. M. DEL CORRAL, A. MIRALLES, M. C. NICOLAU, B. PLANAS and R. V. RIAL, Department of Biology and Health Sciences, University of the Balearic Islands, 07071 Palma de Mallorca, Spain

LONG-TERM POTENTIATIONS IN VERTEBRATE SYNAPSES: A VARIETY OF CASCADES WITH COMMON SUBPROCESSES 197
K. KUBA and E. KUMAMOTO, Department of Physiology, Saga Medical School, Nabeshima, Saga 840-01, Japan

IN SITU HYBRIDIZATION HISTOCHEMISTRY AND THE STUDY OF GENE EXPRESSION IN THE HUMAN BRAIN 271
P. J. HARRISON* and R. C. A. PEARSON†, *Department of Anatomy and Cell Biology, St. Mary's Hospital Medical School, and Academic Department of Psychiatry, St. Mary's Hospital, London W2 1PG, U.K. and †Department of Biomedical Science, University of Sheffield, Sheffield S10 2TN, U.K.

NEURAL BASIS OF SOUND PATTERN RECOGNITION IN ANURANS 313
A. S. FENG, J. C. HALL and D. M. GOOLER, Department of Physiology and Biophysics, University of Illinois at Urbana-Champaign, Urbana, IL 61801, U.S.A.

DRUG-INDUCED NEUROLOGICAL DISORDERS 331
W. DICKEY and J. I. MORROW, Department of Neurology, Royal Victoria Hospital, Belfast, BT12 6BA, U.K.

NEUROPHYSIOLOGICAL AND BIOCHEMICAL CHANGES EVOKED BY VALPROIC ACID IN THE CENTRAL NERVOUS SYSTEM 343
D. COTARIU, J. L. ZAIDMAN and S. EVANS, Department of Biochemical Pathology, Assaf Harofeh Medical Center, Sackler Faculty of Medicine, University of Tel-Aviv, Zerifin, Israel

PHYSIOLOGICAL AND PHARMACOLOGICAL COMPARISONS OF ANGIOTENSIN II RECEPTORS IN NEURONAL AND ASTROCYTE GLIAL CULTURES 355
C. SUMMERS, L. M. MYERS, C. J. KALBERG and M. K. RAIZADA, Department of Physiology, College of Medicine, University of Florida, Gainesville, FL 32610, U.S.A.

DOPAMINE UPTAKE: A REVIEW OF PROGRESS IN THE LAST DECADE 387
A. S. HORN, University Centre for Pharmacy, 2, Antonius Deusinglaan, University of Groningen, Groningen, The Netherlands

THE REGULATION AND MODULATION OF pH IN THE NERVOUS SYSTEM 401
M. CHESLER, Department of Neurosurgery and Department of Physiology and Biophysics, New York University Medical Center, 550 First Avenue, New York, NY 10016, U.S.A.

NEUROPHARMACOLOGICAL PROFILE OF V-9-M, A PUTATIVE NEUROPEPTIDE DERIVED FROM PROCHOLECYSTOKININ 429
S. ITOH and A. TAKASHIMA, Shionogi Research Laboratories, Fukushima-ku, Osaka 553, Japan

EMERGING CONCEPTS OF STRUCTURE–FUNCTION DYNAMICS IN ADULT BRAIN: THE HYPOTHALAMO–NEUROHYPOPHYSIAL SYSTEM 437
G. I. HATTON, Neuroscience Program, Michigan State University, East Lansing, MI 48824–1117, U.S.A.

DEVELOPMENT AND PLASTICITY OF THE LOCUS COERULEUS: A REVIEW OF RECENT PHYSIOLOGICAL AND PHARMACOLOGICAL EXPERIMENTATION 505
S. NAKAMURA and T. SAKAGUCHI, Department of Physiology, Faculty of Medicine, Kanazawa University, Kanazawa 920, Japan